

CLAIMS

1. A crosslinkable resin composition, comprising (A) a polymer which contains a maleimido group and an ethylenically unsaturated group.

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2. A crosslinkable resin composition as defined in claim 1, in which said maleimido group is bonded via an ester or urethane linkage to an ethylenically unsaturated group-containing polymer.

10 3. A crosslinkable resin composition as defined in claim 1, in which said ethylenically unsaturated group is bonded via an ester or urethane linkage to a maleimido group-containing polymer.

15 4. A crosslinkable resin composition as defined in claim 1, further comprising (B) a compound, other than the component (A), containing an ethylenically unsaturated group.

20 5. A crosslinkable resin composition as defined in claim 1, in which said ethylenically unsaturated group of the component (A) is acryloyl or methacryloyl group.

6. A crosslinkable resin composition as defined in claim 4, in which the component (B) is a compound having two or more ethylenically unsaturated groups.

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7. A crosslinkable resin composition as defined in claim 6, in which said ethylenically unsaturated groups of the component (B) are acryloyl or methacryloyl groups.

5 8. A crosslinkable resin composition comprising a compound as defined in any of claims 1-7, said resin composition being capable of crosslinking by irradiation with an active energy beam.

9. A method for coating an article, which comprises applying
10 a composition of any one of claims 1-7 to an article, and then irradiating the composition with an active energy beam.

10 11. A crosslinkable resin composition as defined in claim 1, in which said composition is an aqueous crosslinkable resin
15 composition.

12. An aqueous crosslinkable resin composition as defined in claim 10, in which the component (A) is dissolved or dispersed in an aqueous medium.

20 13. An aqueous crosslinkable resin composition as defined in claim 11, in which the component (A) is a polymer containing a maleimido group, an ethylenically unsaturated group and an acidic group, or a salt of the polymer.

13. An aqueous crosslinkable resin composition as defined in claim 12, in which said acidic group is a carboxyl group.

14. An aqueous crosslinkable resin composition as defined in claim 13, further comprising (B) a compound, other than the component (A), containing two or more ethylenically unsaturated groups.

15. An aqueous crosslinkable resin composition as defined in claim 14, in which said ethylenically unsaturated groups of the component (B) are acryloyl or methacryloyl groups.

16. An aqueous crosslinkable resin composition comprising a composition as defined in any of claims 10-15, said resin composition being capable of crosslinking by irradiation with an active energy beam.

17. A method for coating an article, which comprises applying a composition of any one of claims 10-15 to an article, and then irradiating the composition with an active energy beam.

18. An aqueous paint for wood, comprising a composition as defined in any of claims 10-15, said paint being capable of crosslinking by irradiation with an ultraviolet light.

19. A method for coating wood, which comprises applying a composition of any one of claims 10-15 to wood, and then irradiating the composition with an ultraviolet light.

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